

PHOTOCATALYTIC NANO-CRYSTALLINE TiO_2 THIN FILMS, METHOD FOR PREPARING THE SAME AND USE THEREOF

Abstract of the Disclosure

The preferred embodiments provide for a process for preparing a TiO_2 thin film. The preferred embodiments also provide for TiO_2 thin films prepared by the process herein, and a method of using TiO_2 thin films for killing bacteria and viruses in an environment under ultraviolet irradiation. The TiO_2 thin films according to the invention have higher photocatalytic activity, and can particularly be used to photocatalytically degrade organic pollutants in air to hereby kill bacteria and viruses therein.

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